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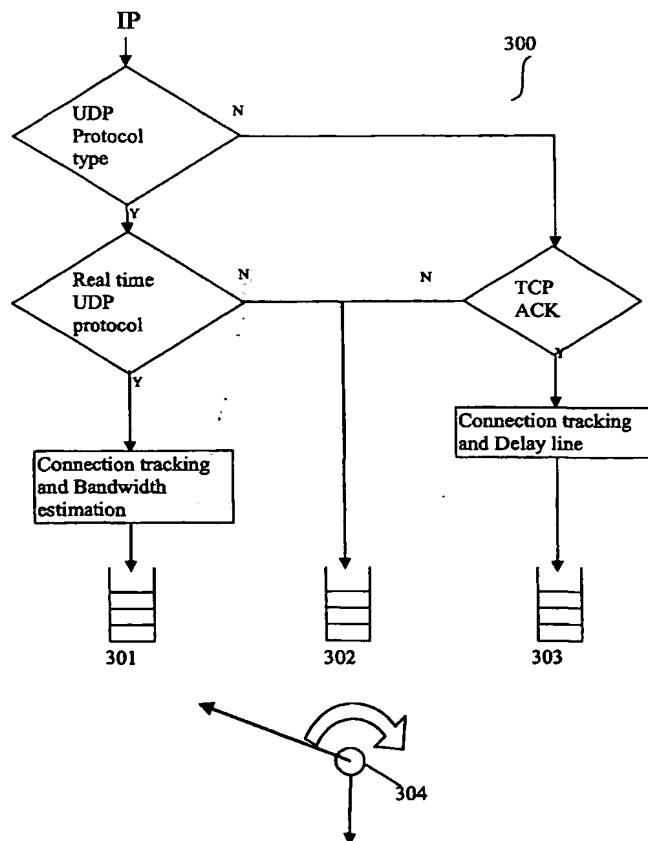
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(54) Title: PROTECTING REAL-TIME DATA IN WIRELESS NETWORKS



(57) Abstract: The invention provides a traffic shaper module allocates more bandwidth to real-time data in wireless TCP/IP networks where accessible bandwidth is limited. This is particularly relevant for IEEE 802.11b networks. For downstream data, the traffic shaper module can be set to control the transmission to all clients and thereby give priority to the port carrying real-time data. For the upstream case, data transmission from all kinds of standard devices is to be reduced or delayed. Hence, the data transmissions from other clients have to be controlled remotely from the access point. By delaying or discarding packets, such as TCP acknowledgements, to other clients, the traffic shaper module artificially increases their Round Trip Time (RTT). The protocol at these clients responds to the increased RTT by transmitting data at a lower rate, thereby leaving more bandwidth for the real-time data port.



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